EPISODES

NAMES OF EPISODES

Names	Definitions	
GENERALIZED EPI	GENERALIZED EPILEPTIC SEIZURES	
Absence: - Atypical	Absence seizures may have a) change in tone that are more pronounced	
	than in typical absences; b) onset and /or cessation that is not abrupt.	
	Ictal EEG: it is more heterogeneous; may include irregular spike-and-	
	slow wave complexes, fast activity or other paroxysmal activity.	
	Abnormalities are bilateral but often irregular and asymmetrical.	
	Interictal EEG: background is usually abnormal; paroxysmal activity	
	(such as spikes and spike-and-slow wave complexes) frequently	
	irregular and asymmetrical.	
Absence: - Typical	Clinical manifestations can be: a) impairment of consciousness only; b)	
	with mild clonic components; c) with atonic components; d) with tonic	
	components; e) with automatisms; f) with autonomic components (b	
	through f may be used alone or in combination). Ictal EEG: usually	
	regular and symmetrical 3 Hz but may be 2-4 Hz spike-and-slow	
	complexes. Abnormalities are bilateral. Interictal EEG: background	
	activity usually normal although paroxysmal activity (such as spikes or	
	spike-and-slow-wave complexes) may occur. This activity is usually	
	regular and symmetrical.	
Atonic	Seizure characterized by sudden loss or diminution of muscle tone	
	without apparent preceding myoclonic or tonic event lasting ≥ 1 to 2 s,	
	involving head, trunk, jaw, or limb musculature.	
Clonic	Seizure characterized by myoclonic muscle jerks that are regularly	
	repetitive, involve the same muscle groups, at a frequency of ~2–3 c/s,	
	and are prolonged. Synonym: rhythmic myoclonus. Ictal EEG: fast	
	activity (10 Hz or more) and slow waves; or: spike-and wave pattern.	

Eyelid myoclonia - with	Episodes characterized by occurrence of eyelid myoclonia, i.e. marked
(or without) absence	jerking of the eyelids immediately after eye closure with or without brief
	absences, usually lasting less than 6 sec. Ictal EEG: high-amplitude
	generalized polyspikes or polyspikewave
	complexes, often followed by brief discharges (3-6 s or less) of
	rhythmic spike- or polyspike-wave complexes at 3 or more per second.
	Typically, these abnormalities are triggered by active eye-closure (not
	by simple eye blinks), occurring immediately (usually about 0.5s) on
	closing the eyes, in a well-lit recording room; darkness abolishes totally
	or partially this response, whereas hyperventilation can enhance
	generalized paroxysmal activity and eventually give rise to eyelids
	myoclonia and absences. Interictal EEG: generalized photoparoxysmal
	EEG response
Myoclonic	Episode characterized by sudden, brief (<100 ms) involuntary single or
	multiple contraction(s) of muscles(s) or muscle groups of variable
	topography (axial, proximal limb, distal) (Blume et al., 2001).
	Generalized myoclonic episodes may be associated with bilateral,
	symmetrical spike/polyspike wave complexes or sharp and slow waves
Myoclonic absence	Absence seizure characterized by abrupt onset associated with bilateral
	rhythmic myoclonic jerks of severe intensity. The loss of consciousness
	during the absence may be complete or partial. The seizure mainly
	involves muscles of the shoulders, arms, and legs; facial muscles are less
	involved. When facial myoclonias occur, they are more evident around
	the chin and mouth, whereas eyelid twitching is typically absent or rare.
	The movements may be sustained and progressive, being associated
	with tonic contraction, which is maximal in shoulder and deltoid
	muscles. The jerks and tonic contractions may be symmetrical or
	predominant on one side, causing turning of the head and body.
	Autonomic manifestations such as arrest of respiratory movement and
	urinary incontinence may also be present. Each episode of myoclonic
	absences may last from 10 to 60 seconds. Ictal EEG in epilepsy with
	myoclonic absences shows a pattern of bilateral, synchronous, and

	symmetrical discharge of spike-waves at 3 Hz, similar to that of
	childhood absences. The discharges may end with delta waves in frontal
	areas, which may be asymmetrical. The spike-wave discharges may be
	interspersed with polyspike and wave activity. Polygraphic recording of
	myoclonic absences discloses the appearance of bilateral myoclonias, at
	the same frequency as the spikes and waves, which begin 1 or 2 seconds
	after the onset of the EEG paroxysmal discharges and are followed by a
	tonic, sometimes asymmetrical, contraction, maximal in the deltoid and
	shoulder muscles. Interictal EEG findings include normal background
	activity in all cases with superimposed generalized spikes and waves or,
	more rarely, focal or multifocal spikes and waves. Photosensitivity is
	uncommon. The sleep EEG shows a normal organization and
	symmetrical physiological patterns. During sleep the evolution of the
	spikes and waves is similar, on the whole, to that observed in childhood
	absence epilepsy
Myoclonic atonic	Seizures in which the atonia is preceded by a myoclonic jerk (i.e., a
	sudden and brief – less than 100 msec – involuntary contraction of
	muscle groups of variable topography. Falling seizures are better termed
	astatic, this term implying "loss of erect posture that results from atonic,
	myoclonic or tonic mechanisms"; drop attacks would be a synonym.
	Ictal EEG: polyspikes and waves or flattening or low-voltage fast
	activity
Myoclonic tonic	Seizure characterized by a myoclonic phenomenon followed by a tonic
·	phase.
Tonic	Seizure characterized by sustained increase in muscle contraction lasting
20110	a few seconds to minutes. Ictal EEG: low-voltage fast activity or a fast
	rhythm of 9-10 c/sec or more decreasing in frequency and increasing in
TD 1 1 1 1	amplitude
Tonic-clonic (in any	A sequence consisting of a tonic followed by a clonic phase. Variants
combination):	such as clonic-tonic-clonic may be seen. Generalized tonic-clonic
	seizure: Bilateral symmetric tonic contraction and then bilateral clonic
	contractions of somatic muscles, usually associated with autonomic
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	phenomena.
FOCAL EPILEPTIC SE	EIZURES
Localization	It refers to the initial activation of a system of neurons limited to part of
	one cerebral hemisphere as indicated by the first clinical and EEG
	changes
	Frontal / Temporal / Rolandic / Parietal / Occipital: it refers to seizures
	whose ictal signs and symptoms suggest the predominant involvement
	of a circumscribed brain region defined according to brain lobes
Evolving to bilateral	Involves tonic, clonic, or tonic and clonic components. A focal seizure
convulsive seizure:	propagating to a wide cortical network, both hemispheres. This
	expression replaces the term "secondarily generalized seizure".
OTHER TYPES OF EPILEPTIC SEIZURES	
Electrographic seizure	Referred usually to non convulsive status. Ictal EEG: rhythmic
	discharge or spike and wave pattern with definite evolution in
	frequency, location, or morphology lasting at least 10 s; evolution in
	amplitude alone did not qualify
Epileptic spasm	A sudden flexion, extension, or mixed extension-flexion of
	predominantly proximal and truncal muscles that is usually more
	sustained than a myoclonic movement but not so sustained as a tonic
	seizure (i.e., ~1 s). Limited forms may occur: grimacing, head nodding.
	Epileptic spasms frequently occur in clusters. Ictal EEG demonstrates a
	generalized low-amplitude fast activity or high amplitudes slow waves
	for seconds.
Subtle seizure	Seizure type frequent in neonates, sometimes referred to as motor
	automatisms; they may include random and roving eye movements,
	sucking, chewing motions, tongue protrusion, rowing or swimming or
	boxing movements of the arms, pedaling and bycicling movements of
	the lower limbs; apneic seizures are relatively common. Although some
	subtle seizures are associated with rhythmic ictal EEG discharges, and
	are clearly epileptic, ictal EEG often does not show typical epileptic
	activity
Tonic spasm	Sudden axial contraction as in epileptic spasms, followed by a tonic

Cataplexy A sudden decrement in muscle tone and loss of deep to leading to muscle weakness, paralysis, or postural colla usually is precipitated by an outburst of emotional explanghter, anger, or startle. It is one of the tetrad of symmarcolepsy. During cataplexy, respiration and voluntary are not compromised. Consciousness is preserved. PNES (Psychogenic non-epileptic seizure) Paroxysmal events that mimic (or are confused with) emonths but which do not result from epileptic activity; they lange findings during the ictus Syncope Episode with loss of consciousness and muscle tone the onset, of short duration and followed by rapid recovery response to transient impairment of cerebral perfusions. prodromal symptoms often herald onset of syncope and symptoms are minimal. Syncopal convulsions resulting anoxia are common but are not a form of epilepsy, nor accompanying EEG ictal discharges.	
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anoxia are common but are not a form of epilepsy, nor	d postictal
	g from cerebral
accompanying FFG ictal discharges	are there any
accompanying LLO tetal discharges.	
SLEEP RELATED EVENTS	
Benign sleep A distinctive disorder of sleep characterized by a) neor	natal onset, b)
myoclonus: rhythmic myoclonic jerks only during sleep and c) abru	upt and consistent
cessation with arousal, d) absence of concomitant elect	trographic
changes suggestive of seizures, and e) good outcome.	
Confusional awakening Episodes of non epileptic nature included in NREM pa	rasomnias,
characterized by sudden arousal and complex behavior	but without full
alertness, usually lasting a few minutes and occurring a	almost in all
children at least occasionally. Amnesia of the episode	is the rule.
PLMS (Periodic Limb Episodes characterized by brief (0.5- to 5.0-second) lo	wer-extremity
Movement in Sleep) movements during sleep, which typically occur at 20-	to 40-second
intervals, most commonly during the first 3 hours of sl	eep. The affected
individual is usually not aware of the movements or of	the transient
partial arousals.	

RBD (REM Sleep	Episodes characterized by: a) presence of REM sleep without atonia
Behavioral Disorder)	(RSWA) on polysomnography (PSG); b) presence of at least 1 of the
	following conditions - (1) Sleep-related behaviors, by history, that have
	been injurious, potentially injurious, or disruptive (example: dream
	enactment behavior); (2) abnormal REM sleep behavior documented
	during PSG monitoring; (3) absence of epileptiform activity on
	electroencephalogram (EEG) during REM sleep (unless RBD can be
	clearly distinguished from any concurrent REM sleep-related seizure
	disorder); (4) sleep disorder not better explained by another sleep
	disorder, a medical or neurologic disorder, a mental disorder, medication
	use, or a substance use disorder.
Sleep-walking	Episodes characterized by ambulation during sleep; the patient is
	difficult to arouse during an episode, and is usually amnesic following
	the episode. Episodes usually occur in the first third of the night during
	slow wave sleep. Polysomnographic recordings demonstrate 2
	abnormalities during the first sleep cycle: frequent, brief, nonbehavioral
	EEG-defined arousals prior to the somnambulistic episode and
	abnormally low δ (0.75-2.0 Hz) EEG power on spectral analysis,
	correlating with high-voltage "hypersynchronic δ" waves lasting 10 to
	15 s occurring just prior to the movement. This is followed by stage I
	NREM sleep, and there is no evidence of complete awakening.
PAEDIATRIC EVENTS	
Hyperekplexia	Disorder characterized by exaggerated startle response and hypertonicity
	that may occur during the first year of life and in severe cases during the
	neonatal period. Children usually present with marked irritability and
	recurrent startles in response to handling and sounds. Severely affected
	infants can have severe jerks and stiffening, sometimes with breath-
	holding spells.
Jactatio capitis	Relatively common in normal children at the time of going to bed,
nocturna	especially during the first year of life, the rhythmic head movements
	persist during sleep. Usually, these phenomena disappear before 3 years

	of age.	
Paroxysmal motor	Paroxysmal phenomena during neonatal or childhood periods	
event	characterized by recurrent motor or behavioural signs or symptoms that	
	must be distinguishes from epileptic disorders.	
Pavor nocturnus	Nocturnal episodes characterized by age of onset of less than five years	
	(mean age 18 months, with peak prevalence at five to seven years),	
	appearance of signs of panic two hours after falling asleep with crying,	
	screams, a fearful expression, inability to recognize other people	
	including parents (for a duration of 5-15 minutes), amnesia upon	
	awakening. Pavor nocturnus occurs in patients almost every night for	
	months or years (but the frequency is highly variable and may be as low	
	as once a month) and is likely to disappear spontaneously at the age of	
	six to eight years.	
Stereotypical	Repetitive motor behavior in children, typically rhythmic and persistent;	
behaviour:	usually not paroxysmal and rarely suggest epilepsy. They include head-	
	banging, head-rolling, jactatio capitis nocturna, body rocking, buccal or	
	lingual movements, hand flapping and related mannerisms, repetitive	
	hand-waving (to self-induce photosensitive seizures).	

ICTAL AND POSTICTAL EEG PATTERNS

Term	Definition
Burst-suppression	Pattern characterized by burst of theta and/or delta waves, at times
pattern	intermixed with faster waves, and intervening periods of low amplitude
	(below $20\mu V$).
DC shift	Shift of negative polarity of the direct current recordings, during
	seizures.
Disappearance of	Disappearance of the EEG activity that preceded the ictal event, but still
ongoing activity	some remnants of background activity (thus not enough to name it
	electrodecremental change)
Electrodecremental	Sudden desynchronization of electrical activity.

change	
Fast spike activity	A burst consisting of a sequence of spikes. Duration > 1 s. Frequency at
	least in the alpha range.
Flattening (postictal)	Postictal, transitory suppression of EEG activity.
Increase in the interictal	Postictal phenomenon: transitory increase in the incidence of the inter-
epileptiform discharges	ictal epileptiform discharges. However, the localisation and the
(postictal)	morphology is unchanged.
Irregular delta/ theta	EEG activity consisting of repetitive waves of inconsistent wave-
activity	duration but in the delta and/or theta range (>125 ms).
Low-voltage fast	Refers to the fast, and often recruiting activity which can be recorded at
activity	the onset of an ictal discharge, particularly in invasive EEG recording of
	a seizure.
Obscured by artefacts	The interpretation of the ictal EEG is not possible due to artefacts
No demonstrable ictal	Lack of change in the EEG during the clinical event.
EEG change	
Periodic epiletiform	Epileptiform dischages (for example spikes, sharp-waves) that repeat at
discharges	approximately constant period; there is a return to the background
	activity (not necessarily the normal background) between the successive
	discharges.
Polysharp-waves	A sequence of two or more sharp-waves.
Polyspikes	A sequence of two or more spikes. Duration < 1 s.
Polyspike-and-slow-	A sequence of two or more spikes associated with one or more slow
wave complexes	waves.
Rhythmic activity	EEG activity consisting of a sequence of waves of approximately
	constant period.
Sharp-and-slow-wave	A sequence of a sharp wave and a slow wave.
complexes	
Slowing (postictal)	A transitory postictal phenomenon: waves of longer duration (and
	usually higher amplitude) than of the background activity.
Spike-and-slow-wave	A pattern consisting of a spike followed by a slow wave.
complexes	

NAMES OF ICTAL CLINICAL FINDINGS

Names	Definitions	
ELEMENTARY MOTOR		
Tonic	A sustained increase in muscle contraction lasting a few	
	seconds to minutes.	
Dystonic	Sustained contractions of both agonist and antagonist muscles	
	producing athetoid or twisting movements, which, when	
	prolonged, may produce abnormal postures	
Epileptic spasm	A sudden flexion, extension, or mixed extension-flexion of	
	predominantly proximal and truncal muscles that is usually	
	more sustained than a myoclonic movement but not so	
	sustained as a tonic seizure (i.e., ~1 s). Limited forms may	
	occur: grimacing, head nodding. Frequent occurrence in	
	clusters.	
Postural	Adoption of a posture that may be bilaterally symmetric or	
	asymmetric (as in a "fencing posture")	
Versive	A sustained, forced conjugate ocular, cephalic, and/or truncal	
	rotation or lateral deviation from the midline	
Myoclonic	Characterized by myoclonus. MYOCLONUS: sudden, brief (<100 ms) involuntary single or multiple contraction(s) of muscles(s) or muscle groups of variable topography (axial, proximal limb, distal)	
Clonic	Myoclonus that is regularly repetitive, involves the same	
	muscle groups, at a frequency of ~2–3 c/s, and is prolonged.	
	Synonym: rhythmic myoclonus	
Jacksonian march	Term indicating spread of clonic movements through	
	contiguous body parts unilaterally	
Negative myoclonic	Characterized by negative myoclonus.	
	NEGATIVE MYOCLONUS: interruption of tonic muscular	
	activity for <500 ms without evidence of preceding myoclonia.	

Tonic-clonic	A sequence consisting of a tonic followed by a clonic phase.	
	Variants such as clonic-tonic-clonic may be seen.	
Generalized tonic-clonic	Bilateral symmetric tonic contraction and then bilateral clonic	
seizure (Formerly "Grand	contractions of somatic muscles, usually associated with	
Mal" Seizure)	autonomic phenomena.	
- Figure of four:	Asymmetry of limb posture during the tonic phase of a GTC:	
extended elbow: left/right	one arm is rigidly extended at the elbow (often with the fist	
	clenched tightly and flexed at the wrist), whereas the opposite	
	arm is flexed at the elbow.	
Atonic	Sudden loss or diminution of muscle tone without apparent	
	preceding myoclonic or tonic event lasting ≥ 1 to 2 s,	
	involving head, trunk, jaw, or limb musculature.	
Astatic	Loss of erect posture that results from an atonic, myoclonic, or	
	tonic mechanism. Synonym: drop attack.	
AUTOMATISMS		
Dacrystic	Bursts of crying.	
Dysphasic	Impaired communication involving language without	
	dysfunction of relevant primary motor or sensory pathways,	
	manifested as impaired comprehension, anomia, paraphasic	
	errors, or a combination of these.	
Dyspraxic	Inability to perform learned movements spontaneously or on	
	command or imitation despite intact relevant motor and	
	sensory systems and adequate comprehension and cooperation	
Gelastic	Bursts of laughter or giggling, usually without an appropriate	
	affective tone.	
Gestural	Semipurposive, asynchronous hand movements. Often	
	unilateral.	
Hyperkinetic	 Involves predominantly proximal limb or axial muscles producing irregular sequential ballistic movements, such as pedaling, pelvic thrusting, thrashing, rocking movements. Increase in rate of ongoing movements or inappropriately rapid performance of a movement. 	
Hypokinetic	A decrease in amplitude and/or rate or arrest of ongoing motor	
	ı	

	activity.
Manual or pedal	1. Indicates principally distal components, bilateral or unilateral.
	2. Fumbling, tapping, manipulating movements.
Mimetic	Facial expression suggesting an emotional state, often fear.
Oroalimentary	Lip smacking, lip pursing, chewing, licking, tooth grinding, or swallowing.
Vocal	Single or repetitive utterances consisting of sounds such as grunts or shrieks.
Verbal	Single or repetitive utterances consisting of words, phrases, or brief sentences.
With preserved responsiveness	With preserved ability to carry out simple commands or willed movement.
AUTONOMIC	
Cardiovascular	Modifications of heart rate (tachycardia, bradycardia), cardiac
	arrhythmias (such as sinus arrhythmia, sinus arrest,
	supraventricular tachycardia, atrial premature depolarizations,
	ventricular premature depolarizations, atrio-ventricular block,
	bundle branch block, atrioventricular nodal escape rhythm,
	asystole)
Gastrointestinal	Nausea, eructation, vomiting, retching, abdominal sensations,
	abdominal pain, flatulence, spitting, diarrhoea
Genital	Sexual auras (erotic thoughts and feelings, sexual arousal and
	orgasm).
	Genital auras (unpleasant, sometimes painful, frightening or
	emotionally neutral somatosensory sensations in the genitals
	that can be accompanied by ictal orgasm).
	Sexual automatisms (hypermotor movements consisting of
	writhing, thrusting, rhythmic movements of the pelvis, arms
	and legs, sometimes associated with picking and rhythmic
	manipulation of the groin or genitalia, exhibitionism and
	masturbation).

Hypersalivation	Increase in production of saliva leading to uncontrollable
	drooling
Pupillary	Mydriasis, miosis (either bilateral or unilateral)
Respiratory/apnoeic	subjective shortness of breath, hyperventilation, stridor,
	coughing, choking, apnea, oxygen desaturation, neurogenic
	pulmonary edema
Sudomotor	Sweating and piloerection (may be accompanied by feelings of
	warmth, cold and pain)
Thermoregulatory	Hyperthermia, fever
Urinary incontinence	urinary urge (intense urinary urge at the beginning of seizures),
	urinary incontinence, ictal urination (rare symptom of partial
	seizures without loss of consciousness)
Vasomotor	Flushing or pallor (may be accompanied by feelings of warmth,
	cold and pain).
MOTOR/BEHAVIOURAL	Interruption of ongoing motor activity or of ongoing
ARREST	behaviours with fixed gaze, without movement of the head or trunk (oro-alimentary and hand automatisms may continue)
DYSCOGNITIVE	The term describes events in which (1) disturbance of cognition is the predominant or most apparent feature, and (2a) two or more of the following components are involved, or (2b) involvement of such components remains undetermined. Otherwise, use the more specific term (e.g., "mnemonic experiential seizure" or "hallucinatory experiential seizure"). Components of cognition: • perception: symbolic conception of sensory information • attention: appropriate selection of a principal perception or task • emotion: appropriate affective significance of a perception • memory: ability to store and retrieve percepts or concepts • executive function: anticipation, selection, monitoring of consequences, and initiation of motor activity including praxis, speech
SENSORY	
Auditory	Buzzing, drumming sounds or single tones.
Autonomic	A sensation consistent with involvement of the autonomic
	nervous system, including cardiovascular, gastrointestinal,

	sudomotor, vasomotor, and thermoregulatory functions. (Thus
	"autonomic aura"; cf. "autonomic events" 3.0).
Headache	Headache occurring in close temporal proximity to the seizure
	or as the sole seizure manifestation
Epigastric	Abdominal discomfort including nausea, emptiness, tightness,
	churning, butterflies, malaise, pain, and hunger; sensation may
	rise to chest or throat. Some phenomena may reflect ictal
	autonomic dysfunction.
Gustatory	Taste sensations including acidic, bitter, salty, sweet, or
	metallic.
Painful	Peripheral (lateralized/bilateral), cephalic, abdominal
Somatosensory	Tingling, numbness, electric-shock sensation, sense of
	movement or desire to move.
Visual	Flashing or flickering lights, spots, simple patterns, scotomata,
	or amaurosis.
EXPERIENTIAL	
Affective/emotional	Components include fear, depression, joy, and (rarely) anger.
Hallucinatory	Composite perceptions without corresponding external stimuli
	involving visual, auditory, somatosensory, olfactory, and/or
	gustatory phenomena. Example: "hearing" and "seeing" people
	talking.
Illusory	An alteration of actual percepts involving the visual, auditory,
	somatosensory, olfactory, or gustatory systems.
Mnemonic:	Components that reflect ictal dysmnesia such as feelings of
	familiarity (deja`-vu) and unfamiliarity (jamais-vu).

NAMES OF POSTICTAL CLINICAL FINDINGS

Names	Definitions
Anterograde amnesia	Impaired ability to remember new material
Aphasia/dysphasia	Impaired communication involving language without dysfunction

	of relevant primary motor or sensory pathways, manifested as
	impaired comprehension, anomia, paraphasic errors, or a
	combination of these.
Behavioural changes	Occurring immediately after a seizure. They include psychosis,
	hypomania, obsessive-compulsive behaviour.
Dysphoria	Depression, irritability, euphoric mood, fear, anxiety.
Headache	Headache with features of tension-type or migraine headache that
	develops within 3 h following the seizure and resolves within 72 h
	after the seizure.
Hemianopia	Postictal visual loss in a hemi-field. See also: Todd's palsy.
Impaired cognition	Decreased cognitive performance involving one or more of
	perception, attention, emotion, memory, execution, praxis, speech
Nosewiping:	Nosewiping usually within 60 seconds of seizure offset, usually
left/right side of the	with the hand ipsilateral to the seizure onset.
nosewiping hand	
Paresis (Todd's palsy)	Any unilateral postictal dysfunction relating to motor, language,
	sensory, and/or integrative functions.
Postictal sleep	Invincible need to sleep after a seizure.
Quick recovery of	Quick recovery of awareness and responsiveness.
consciousness	
Retrograde amnesia	Impaired ability to recall previously remembered material.
Unconscious	Unawareness and unresponsiveness
Unilateral motor phenomena	Unilateral motor phenomena, other then specified above,
	occurring in the postictal phase.